

# STIC Biotechnology Systems Branch

## RAW SEQUENCE LISTING ERROR REPORT

EFS

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

10/542,408B

Source:

IFwo

Date Processed by STIC:

11/27/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06



IFWO

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/542,408B

DATE: 11/27/2006  
TIME: 13:28:07

Input Set : N:\efs\11\_27\_06\10542408b\_efs\3136us0pseq.txt  
Output Set: N:\CRF4\11242006\J542408B.raw

```

3 <110> APPLICANT: ITO, Yasuaki
4   FUJII, Ryo
5   HINUMA, Shuji
6   FUKUSUMI, Shozi
7   MARUYAMA, Minoru
9 <120> TITLE OF INVENTION: Novel Screening Method
11 <130> FILE REFERENCE: 3136 US0P
13 <140> CURRENT APPLICATION NUMBER: US 10/542408B
14 <141> CURRENT FILING DATE: 2005-07-15
16 <150> PRIOR APPLICATION NUMBER: PCT/JP2004/000248
17 <151> PRIOR FILING DATE: 2004-01-15
19 <150> PRIOR APPLICATION NUMBER: JP 2003-010001
20 <151> PRIOR FILING DATE: 2003-01-17
22 <150> PRIOR APPLICATION NUMBER: JP 2003-104540
23 <151> PRIOR FILING DATE: 2003-04-08
25 <150> PRIOR APPLICATION NUMBER: JP 2003-194497
26 <151> PRIOR FILING DATE: 2003-07-09
28 <150> PRIOR APPLICATION NUMBER: JP 2003-329080
29 <151> PRIOR FILING DATE: 2003-09-19
W--> 31 <150> PRIOR APPLICATION NO: PCT/JP2004/000248
32 <151> PRIOR FILING DATE: 2004-01-15
34 <160> NUMBER OF SEQ ID NOS: 22
36 <210> SEQ ID NO: 1
37 <211> LENGTH: 361
38 <212> TYPE: PRT
39 <213> ORGANISM: Homo sapiens
41 <400> SEQUENCE: 1
42 Met Ser Pro Glu Cys Ala Arg Ala Ala Gly Asp Ala Pro Leu Arg Ser
43           5             10            15
44 Leu Glu Gln Ala Asn Arg Thr Arg Phe Pro Phe Phe Ser Asp Val Lys
45           20            25            30
46 Gly Asp His Arg Leu Val Leu Ala Ala Val Glu Thr Thr Val Leu Val
47           35            40            45
48 Leu Ile Phe Ala Val Ser Leu Leu Gly Asn Val Cys Ala Leu Val Leu
49           50            55            60
50 Val Ala Arg Arg Arg Arg Gly Ala Thr Ala Cys Leu Val Leu Asn
51   65           70            75            80
52 Leu Phe Cys Ala Asp Leu Leu Phe Ile Ser Ala Ile Pro Leu Val Leu
53           85            90            95
54 Ala Val Arg Trp Thr Glu Ala Trp Leu Leu Gly Pro Val Ala Cys His
55           100           105           110
56 Leu Leu Phe Tyr Val Met Thr Leu Ser Gly Ser Val Thr Ile Leu Thr
57           115           120           125

```

*Does Not Comply  
Corrected Diskette Needed*

*see P. 6 and P. 8*

*delete - already shown above*

## RAW SEQUENCE LISTING

DATE: 11/27/2006

PATENT APPLICATION: US/10/542,408B

TIME: 13:28:07

Input Set : N:\efs\11\_27\_06\10542408b\_efs\3136us0pseq.txt  
 Output Set: N:\CRF4\11242006\J542408B.raw

58 Leu Ala Ala Val Ser Leu Glu Arg Met Val Cys Ile Val His Leu Gln  
 59 130 135 140  
 60 Arg Gly Val Arg Gly Pro Gly Arg Arg Ala Arg Ala Val Leu Leu Ala  
 61 145 150 155 160  
 62 Leu Ile Trp Gly Tyr Ser Ala Val Ala Ala Leu Pro Leu Cys Val Phe  
 63 165 170 175  
 64 Phe Arg Val Val Pro Gln Arg Leu Pro Gly Ala Asp Gln Glu Ile Ser  
 65 180 185 190  
 66 Ile Cys Thr Leu Ile Trp Pro Thr Ile Pro Gly Glu Ile Ser Trp Asp  
 67 195 200 205  
 68 Val Ser Phe Val Thr Leu Asn Phe Leu Val Pro Gly Leu Val Ile Val  
 69 210 215 220  
 70 Ile Ser Tyr Ser Lys Ile Leu Gln Ile Thr Lys Ala Ser Arg Lys Arg  
 71 225 230 235 240  
 72 Leu Thr Val Ser Leu Ala Tyr Ser Glu Ser His Gln Ile Arg Val Ser  
 73 245 250 255  
 74 Gln Gln Asp Phe Arg Leu Phe Arg Thr Leu Phe Leu Leu Met Val Ser  
 75 260 265 270  
 76 Phe Phe Ile Met Trp Ser Pro Ile Ile Ile Thr Ile Leu Leu Ile Leu  
 77 275 280 285  
 78 Ile Gln Asn Phe Lys Gln Asp Leu Val Ile Trp Pro Ser Leu Phe Phe  
 79 290 295 300  
 80 Trp Val Val Ala Phe Thr Phe Ala Asn Ser Ala Leu Asn Pro Ile Leu  
 81 305 310 315 320  
 82 Tyr Asn Met Thr Leu Cys Arg Asn Glu Trp Lys Lys Ile Phe Cys Cys  
 83 325 330 335  
 84 Phe Trp Phe Pro Glu Lys Gly Ala Ile Leu Thr Asp Thr Ser Val Lys  
 85 340 345 350  
 86 Arg Asn Asp Leu Ser Ile Ile Ser Gly  
 87 355 360  
 89 <210> SEQ ID NO: 2  
 90 <211> LENGTH: 1083  
 91 <212> TYPE: DNA  
 92 <213> ORGANISM: Homo sapiens  
 94 <400> SEQUENCE: 2  
 95 atgtccctg aatgcgcgcg ggcagcgggc gacgcgcct tgcgcagcct ggagcaagcc 60  
 96 aaccgcaccc gcttccctt cttctccgac gtcaaggcg accaccggct ggtgctggcc 120  
 97 ggggtggaga caaccgtgct ggtgctcattt ttgcagtgt cgctgctggg caacgtgtgc 180  
 98 gcccgtgtgc tggtgccgcg ccgacgacgc cgccggccga ctgcctgcct ggtactcaac 240  
 99 ctcttctgct cggacctgct cttcatcagc gctatccctc tggtgctggc cgtgcgtgg 300  
 100 actgaggccct ggctgctggg ccccggttgc tgccacctgc tcttctacgt gatgaccctg 360  
 101 agcggcagcg tcaccatcct cacgctggcc gcggtcagcc tggagcgcatt ggtgtgcattc 420  
 102 gtgcacctgc agcgcggcgt gccccggctt gggccggccgg cgccggcagt gctgctggcg 480  
 103 ctcatctggg gctattcggc ggtcgccgcct ctgcctctt gctgtttttt ccgagtcgtc 540  
 104 ccgcaacggc tccccggcgc cgaccaggaa atttcgattt gcacactgtat ttggcccacc 600  
 105 attcctggag agatctcggt ggtatgtctt tttgttactt tgaacttctt ggtgccagga 660  
 106 ctggtcattt tgatcagtta ctccaaaatt ttacagatca caaaggcatc aaggaaagagg 720  
 107 ctcacggtaa gcctggccta ctcggagagc caccagatcc gcgtgtccca gcaggacttc 780  
 108 cggcttccgc acaccctttt ctcctcatg gtctccttctt tcatcatgtg gagccccatc 840

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/542,408B

DATE: 11/27/2006

TIME: 13:28:07

Input Set : N:\efs\11\_27\_06\10542408b\_efs\3136us0pseq.txt  
 Output Set: N:\CRF4\11242006\J542408B.raw

109 atccatcacca tcctcctcat cctgatccag aacttcaagg aagacctggg catctggccg 900  
 110 tccctttct tctgggtggt ggccttcaca tttgctaatt cagccctaaa ccccatcctc 960  
 111 tacaacatga cactgtgcag gaatgagtgg aagaaaattt tttgctgctt ctggttccca 1020  
 112 gaaaagggag ccatttaac agacacatct gtcaaaagaa atgacttgctt gattatttct 1080  
 113 ggc 1083  
 115 <210> SEQ ID NO: 3  
 116 <211> LENGTH: 361  
 117 <212> TYPE: PRT  
 118 <213> ORGANISM: Mus musculus  
 120 <400> SEQUENCE: 3  
 121 Met Ser Pro Glu Cys Ala Gln Thr Thr Gly Pro Gly Pro Ser His Thr  
 122 5 10 15  
 123 Leu Asp Gln Val Asn Arg Thr His Phe Pro Phe Phe Ser Asp Val Lys  
 124 20 25 30  
 125 Gly Asp His Arg Leu Val Leu Ser Val Val Glu Thr Thr Val Leu Gly  
 126 35 40 45  
 127 Leu Ile Phe Val Val Ser Leu Leu Gly Asn Val Cys Ala Leu Val Leu  
 128 50 55 60  
 129 Val Ala Arg Arg Arg Arg Gly Ala Thr Ala Ser Leu Val Leu Asn  
 130 65 70 75 80  
 131 Leu Phe Cys Ala Asp Leu Leu Phe Thr Ser Ala Ile Pro Leu Val Leu  
 132 85 90 95  
 133 Val Val Arg Trp Thr Glu Ala Trp Leu Leu Gly Pro Val Val Cys His  
 134 100 105 110  
 135 Leu Leu Phe Tyr Val Met Thr Met Ser Gly Ser Val Thr Ile Leu Thr  
 136 115 120 125  
 137 Leu Ala Ala Val Ser Leu Glu Arg Met Val Cys Ile Val Arg Leu Arg  
 138 130 135 140  
 139 Arg Gly Leu Ser Gly Pro Gly Arg Arg Thr Gln Ala Ala Leu Leu Ala  
 140 145 150 155 160  
 141 Phe Ile Trp Gly Tyr Ser Ala Leu Ala Leu Pro Leu Cys Ile Leu  
 142 165 170 175  
 143 Phe Arg Val Val Pro Gln Arg Leu Pro Gly Gly Asp Gln Glu Ile Pro  
 144 180 185 190  
 145 Ile Cys Thr Leu Asp Trp Pro Asn Arg Ile Gly Glu Ile Ser Trp Asp  
 146 195 200 205  
 147 Val Phe Phe Val Thr Leu Asn Phe Leu Val Pro Gly Leu Val Ile Val  
 148 210 215 220  
 149 Ile Ser Tyr Ser Lys Ile Leu Gln Ile Thr Lys Ala Ser Arg Lys Arg  
 150 225 230 235 240  
 151 Leu Thr Leu Ser Leu Ala Tyr Ser Glu Ser His Gln Ile Arg Val Ser  
 152 245 250 255  
 153 Gln Gln Asp Tyr Arg Leu Phe Arg Thr Leu Phe Leu Leu Met Val Ser  
 154 260 265 270  
 155 Phe Phe Ile Met Trp Ser Pro Ile Ile Ile Thr Ile Leu Leu Ile Leu  
 156 275 280 285  
 157 Ile Gln Asn Phe Arg Gln Asp Leu Val Ile Trp Pro Ser Leu Phe Phe  
 158 290 295 300  
 159 Trp Val Val Ala Phe Thr Phe Ala Asn Ser Ala Leu Asn Pro Ile Leu

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/542,408B

DATE: 11/27/2006

TIME: 13:28:07

Input Set : N:\efs\11\_27\_06\10542408b\_efs\3136us0pseq.txt  
 Output Set: N:\CRF4\11242006\J542408B.raw

160	305	310	315	320
161	Tyr Asn Met Ser Leu Phe Arg Asn Glu Trp Arg Lys Ile Phe Cys Cys			
162	325	330	335	
163	Phe Phe Phe Pro Glu Lys Gly Ala Ile Phe Thr Asp Thr Ser Val Arg			
164	340	345	350	
165	Arg Asn Asp Leu Ser Val Ile Ser Ser			
166	355	360		
168	<210> SEQ ID NO: 4			
169	<211> LENGTH: 1083			
170	<212> TYPE: DNA			
171	<213> ORGANISM: Mus musculus			
173	<400> SEQUENCE: 4			
174	atgtcccctg agtgtgcaca gacgacgggc cctggccct cgcacaccct ggaccaagtc	60		
175	aatcgacccc acttcccttt ctctcgat gtcaaggcg accaccgtt ggtttgagc	120		
176	gtcgtggaga ccaccgttct ggggctcatc tttgtcgat cactgctgg caacgtgt	180		
177	gtcttagtgc ttgtggcgcg ccgtcggcg cgtggggcga cagccagcct ggtgctcaac	240		
178	cttttctgcg cggatttgct cttcaccagc gccatccctc tagtgcgt cgtgcgtgg	300		
179	actgaggcct ggctgttggg gcccgtcg tcgcacactgc tcttctacgt gatgacaatg	360		
180	agcggcagcg tcacgatct cacactggcc gcggtaagcc tggagcgcatt ggtgtgcatt	420		
181	gtgcgcctcc gycyccggctt gagcggcccg gggccggcga ctcaaggccgc actgtggct	480		
182	tccatatggg ttactcgcc gtcgcccgc ctgcctct gcatttttt ccgcgtggc	540		
183	ccgcagcgc ttcgggggg ggaccaggaa attccgattt gcacatttggaa ttggcccaac	600		
184	cgcataaggag aaatctcatg ggatgtgttt tttgtactt tgaacttcc ggtgccggga	660		
185	ctggtcattt tgatcagtta ctccaaaatt ttacagatca cggaaagcatt gcggaaagagg	720		
186	cttacgctga gcttggcata ctctgagagc caccagatcc gagtgccttca acaagactac	780		
187	cgaacttcc gcacgcttct cttgtcatg gtttcttct tcattatgtt gatgtccatc	840		
188	atcatcacca tccttcat cttgatccaa aactccggc aggaccttggt catctggcca	900		
189	tccctttct tctgggtggt ggccttcacg tttgccaact ctgccttaaa cccctatacg	960		
190	tacaacatgt cgctgttcag gaacgaatgg aggaagattt tttgctgtt ctttttcca	1020		
191	gagaagggag ccattttac agacacgtt gtcaggcgaa atgacttgc ttttatttcc	1080		
192	1083			
194	<210> SEQ ID NO: 5			
195	<211> LENGTH: 20			
196	<212> TYPE: DNA			
197	<213> ORGANISM: Artificial Sequence			
199	<220> FEATURE:			
200	<223> OTHER INFORMATION: primer			
202	<400> SEQUENCE: 5			
203	gctgtggcat gcttttaaac	20		
205	<210> SEQ ID NO: 6			
206	<211> LENGTH: 20			
207	<212> TYPE: DNA			
208	<213> ORGANISM: Artificial Sequence			
210	<220> FEATURE:			
211	<223> OTHER INFORMATION: primer			
213	<400> SEQUENCE: 6			
214	cgctgtggat gtctatttgc	20		
216	<210> SEQ ID NO: 7			
217	<211> LENGTH: 30			

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/542,408B

DATE: 11/27/2006

TIME: 13:28:07

Input Set : N:\efs\11\_27\_06\10542408b\_efs\3136us0pseq.txt  
 Output Set: N:\CRF4\11242006\J542408B.raw

```

218 <212> TYPE: DNA
219 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <223> OTHER INFORMATION: primer
224 <400> SEQUENCE: 7
225 agttcatttc cagtaccctc catcagtggc      30
227 <210> SEQ ID NO: 8
228 <211> LENGTH: 361
229 <212> TYPE: PRT
230 <213> ORGANISM: Rattus norvegicus
232 <400> SEQUENCE: 8
233 Met Ser Pro Glu Cys Ala Gln Thr Thr Gly Pro Gly Pro Ser Arg Thr
234           5          10          15
235 Pro Asp Gln Val Asn Arg Thr His Phe Pro Phe Phe Ser Asp Val Lys
236           20         25         30
237 Gly Asp His Arg Leu Val Leu Ser Val Leu Glu Thr Thr Val Leu Gly
238           35         40         45
239 Leu Ile Phe Val Val Ser Leu Leu Gly Asn Val Cys Ala Leu Val Leu
240           50         55         60
241 Val Val Arg Arg Arg Arg Gly Ala Thr Val Ser Leu Val Leu Asn
242           65         70         75         80
243 Leu Phe Cys Ala Asp Leu Leu Phe Thr Ser Ala Ile Pro Leu Val Leu
244           85         90         95
245 Val Val Arg Trp Thr Glu Ala Trp Leu Leu Gly Pro Val Val Cys His
246           100        105        110
247 Leu Leu Phe Tyr Val Met Thr Met Ser Gly Ser Val Thr Ile Leu Thr
248           115        120        125
249 Leu Ala Ala Val Ser Leu Glu Arg Met Val Cys Ile Val Arg Leu Arg
250           130        135        140
251 Arg Gly Leu Ser Gly Pro Gly Arg Arg Thr Gln Ala Ala Leu Leu Ala
252           145        150        155        160
253 Phe Ile Trp Gly Tyr Ser Ala Leu Ala Leu Pro Leu Cys Ile Leu
254           165        170        175
255 Phe Arg Val Val Pro Gln Arg Leu Pro Gly Gly Asp Gln Glu Ile Pro
256           180        185        190
257 Ile Cys Thr Leu Asp Trp Pro Asn Arg Ile Gly Glu Ile Ser Trp Asp
258           195        200        205
259 Val Phe Phe Val Thr Leu Asn Phe Leu Val Pro Gly Leu Val Ile Val
260           210        215        220
261 Ile Ser Tyr Ser Lys Ile Leu Gln Ile Thr Lys Ala Ser Arg Lys Arg
262           225        230        235        240
263 Leu Thr Leu Ser Leu Ala Tyr Ser Glu Ser His Gln Ile Arg Val Ser
264           245        250        255
265 Gln Gln Asp Tyr Arg Leu Phe Arg Thr Leu Phe Leu Leu Met Val Ser
266           260        265        270
267 Phe Phe Ile Met Trp Ser Pro Ile Ile Ile Thr Ile Leu Ile Leu
268           275        280        285
269 Ile Gln Asn Phe Arg Gln Asp Leu Val Ile Trp Pro Ser Leu Phe Phe
270           290        295        300

```

RAW SEQUENCE LISTING ERROR SUMMARY                   DATE: 11/27/2006  
PATENT APPLICATION: US/10/542,408B               TIME: 13:28:08

*FYI*  
Input Set : N:\efs\11\_27\_06\10542408b\_efs\3136us0pseq.txt  
Output Set: N:\CRF4\11242006\J542408B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:21; N Pos. 20,21

Seq#:22; N Pos. 1,2

10/542,408B 8

<210> 21  
<211> 21  
<212> RNA  
<213> Artificial Sequence

<220>  
<221> misc\_RNA  
<222> (20)..(21)  
<223> n stands for deoxy thymidine

<400> 21  
ggaccaggaa auuccgauun n

<210> 22  
<211> 21  
<212> RNA  
<213> Artificial Sequence

<220>  
<221> misc\_RNA  
<222> (1)..(2)  
<223> n stands for deoxy thymidine

<400> 22  
nnccuggucc uuuuaggcua a

no t's (or modified t's) allowed in  
an RNA sequence, even if  
they're represented by n's.

21  
FYI: For a combined DNA/RNA  
sequence, use <212> DNA  
and explain in <220>-<223>  
section that it is a combined  
DNA/RNA sequence.

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/542,408B

DATE: 11/27/2006

TIME: 13:28:08

Input Set : N:\efs\11\_27\_06\10542408b\_efs\3136us0pseq.txt  
Output Set: N:\CRF4\11242006\J542408B.raw

L:31 M:288 W: Application Number is Repeated, <150> PRIOR APPLICATION NUMBER

L:438 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0

L:451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0